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NOTICE OF ALLOWANCE AND FEE(S) DUE

26211

7590

10/02/2009

FISH & RICHARDSON P.C. P.O. BOX 1022 MINNEAPOLIS, MN 55440-1022 EXAMINER

TRINH, MINH N

ART UNIT PAPER NUMBER

3729 DATE MAILED: 10/02/2009

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/598,469 | 05/17/2007 | Takeshi Nakamura | 14225-112US1 | 5820 |

TITLE OF INVENTION: MULTILAYER SUBSTRATE MANUFACTURING METHOD

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO | \$1510 | \$300 | \$0 | \$1810 | 01/04/2010 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

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II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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| 26211 | 7590 10/02 | /2009 | 1 | nave | | | of Mailing or Transn | niccion |
| FISH & RICHA P.O. BOX 1022 MINNEAPOLIS | ARDSON P.C. 5, MN 55440-1022 | |] S 8 t | I here States addre transr | eby certify that this Postal Service wassed to the Mail mitted to the USP | s Fee(sith suf Stop O (57 | s) Transmittal is being ficient postage for first ISSUE FEE address : 1) 273-2885, on the da | deposited with the United t class mail in an envelope above, or being facsimile tte indicated below. |
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| APPLICATION NO. | FILING DATE | | FIRST NAMED INVENT | ГOR | | ATTO | RNEY DOCKET NO. | CONFIRMATION NO. |
| 10/598,469 | 05/17/2007 | | Takeshi Nakamura | ı | | | .4225-112US1 | 5820 |
| TTLE OF INVENTION | : MULTILAYER SUBS | TRATE MANUFACTUI | RING METHOD | | | ŀ | F1040898US00 | |
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| TRINH, I | MINH N | 3729 | 029-852000 | | | | | |
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| CFR 1.363). Change of corresp | ondence address (or Cha 3/122) attached. | nge of Correspondence | (1) the names of up or agents OR, altern | | | attorn | neys 1 | |
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| . ASSIGNEE NAME A | ND RESIDENCE DATA | A TO BE PRINTED ON T | THE PATENT (print or | r type | e) | | | |
| PLEASE NOTE: Unl recordation as set fort | less an assignee is ident h in 37 CFR 3.11. Comp | ified below, no assignee pletion of this form is NO | data will appear on th T a substitute for filing | ne pat gan as | ent. If an assigne ssignment. | ee is ic | lentified below, the do | ocument has been filed for |
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| _ ~ . | s SMALL ENTITY statu | | ☐ b. Applicant is no | longe | er claiming SMAL | L EN | ΓΙΤΥ status. See 37 CF | TR 1.27(g)(2). |
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| This collection of inform n application. Confident ubmitting the completed his form and/or suggesti sox 1450, Alexandria, V Jexandria. Virginia 223 | tiality is governed by 35 I application form to the ions for reducing this but Virginia 22313-1450. DC | FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to th NOT SEND FEES OR | on is required to obtain 1.14. This collection is depending upon the ir e Chief Information Of COMPLETED FORMS | or re s estin ndivid fficer S TO | tain a benefit by the mated to take 12 ndual case. Any co , U.S. Patent and ' THIS ADDRESS | ne publ ninutes mment Fraden . SENI | ic which is to file (and to complete, including s on the amount of tin nark Office, U.S. Depa D TO: Commissioner f | by the USPTO to process) g gathering, preparing, and ne you require to complete rtment of Commerce, P.O. for Patents, P.O. Box 1450, |

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| 10/598,469 | 05/17/2007 | Takeshi Nakamura | 14225-112US1 F1040898US00 | 5820 |
| 26211 75 | 26211 7590 10/02/2009 | | | INER |
| FISH & RICHAI | RDSON P.C. | TRINH, | MINH N | |
| P.O. BOX 1022 | | | ART UNIT | PAPER NUMBER |
| MINNEAPOLIS, MN 55440-1022 | | | 3729 | |
| | | DATE MAILED: 10/02/200 | 9 | |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 62 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 62 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

| | Application No. | Applicant(s) | | |
|--|--|---|-------|--|
| | 10/598,469 | NAKAMURA ET AL. | | |
| Notice of Allowability | Examiner | Art Unit | | |
| | Minh Trinh | 3729 | | |
| The MAILING DATE of this communication ap All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3 | ppears on the cover sheet was IS (OR REMAINS) CLOSED B5) or other appropriate common RIGHTS. This application is | rith the correspondence addressin this application. If not included nunication will be mailed in due cours | | |
| 1. This communication is responsive to <u>5/25/09</u> . | | | | |
| 2. 🔀 The allowed claim(s) is/are <u>9-24</u> . | | | | |
| 3. Acknowledgment is made of a claim for foreign priority a) All b) Some* c) None of the: 1. Certified copies of the priority documents hat 2. Certified copies of the priority documents hat 3. Copies of the certified copies of the priority International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DAT noted below. Failure to timely comply will result in ABANDOI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be sull INFORMAL PATENT APPLICATION (PTO-152) which comply a property of the priority in the complex comple | ave been received. ave been received in Application documents have been received. E" of this communication to file the NMENT of this application. be because the attached Exprises reason(s) why the oath contact be submitted. | on No ed in this national stage application free a reply complying with the requirent (AMINER'S AMENDMENT or NOTIC) or declaration is deficient. | nents | |
| 1) hereto or 2) to Paper No./Mail Date | - | (| | |
| (b) ☐ including changes required by the attached Examin Paper No./Mail Date Identifying indicia such as the application number (see 37 CFI each sheet. Replacement sheet(s) should be labeled as such i 6. ☐ DEPOSIT OF and/or INFORMATION about the de | R 1.84(c)) should be written on In the header according to 37 C | the drawings in the front (not the back) FR 1.121(d). | , | |
| Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-94) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Depos of Biological Material | 5. ☐ Notice of I 8) 6. ☐ Interview S Paper No 7. ☐ Examiner's | nformal Patent Application Summary (PTO-413), ./Mail Date s Amendment/Comment s Statement of Reasons for Allowanc | e | |
| Primary Examiner, Art Unit 3729 | | | | |
| | | | | |

Application/Control Number: 10/598,469 Page 2

Art Unit: 3729

REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance: Applicant arguments filed on 5/22/09 under the "Remarks" pages 7-8 has been carefully evaluation and found to be persuasive. The Examiner agrees that the prior art fails to teach the "metal material" for filling the through hole as recited in the claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Minh Trinh whose telephone number is (571) 272-4569. The examiner can normally be reached on Monday -Thursday 8:00 am to 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Derris Banks can be reached on (571) 272-4419. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 3729

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Minh Trinh/ Primary Examiner, Art Unit 3729

mt 9/24/09